

WHAT IS CLAIMED IS:

1. A method of implementing interworking of addressing schemes in a communication network using at least two different addressing schemes the method comprising the steps of:

obtaining a first address according to a first addressing scheme;

providing a second address according to a second addressing scheme by including the first address into the second address such that the first address is represented in the second address; and

providing an indication that part of the second address represents the first address.

2. The method according to claim 1, further comprising the step of:

upon a query on the basis of an address according to the first addressing scheme, returning a corresponding address formed according to the second addressing scheme and the indication that part of the address according to the second addressing scheme represents the corresponding address according to the first addressing scheme.

3. The method according to claim 1, further comprising the step of:

upon a query on the basis of an address according to the first addressing scheme, returning a corresponding address formed according to the second addressing scheme and adding thereto the indication that part of the address according to the second addressing scheme represents the corresponding address according to the first addressing scheme.

4. The method according to claim 2, wherein the address returning step is performed by using ENUM translation.

5. The method according to claim 3, wherein the address returning step is performed by using ENUM translation.

6. The method according to claim 1, wherein the indication is part of the second address.

7. The method according to claim 1, wherein the indication is 'user=phone' tag.

8. The method according to claim 1, wherein the first address is obtained in an ISUP message.

9. The method according to claim 1, wherein the second address is a SIP URI.

10. The method according to claim 1, further comprising the step of: sending the second address further in a first signaling message.

11. The method according to claim 10, further comprising the steps of:

receiving at least one responding signaling message in response to the first signaling message; and

detecting in the received message an indication that the message includes an address according to the second addressing scheme which includes an address that can be presented according the first addressing scheme.

12. The method according to claim 11, further comprising the step of:

extracting said address according to the first addressing scheme out of said address according to the second addressing scheme.

13. The method according to claim 12, further comprising the step of:

sending the extracted address in a second signaling message.

14. The method according to claim 11, wherein the first and responding signaling messages are SIP messages.

15. The method according to claim 13, wherein the second signaling message is an ISUP message.

16. The method according to claim 12, wherein the extracted address is an address of a connected user.

17. The method according to claim 1, wherein the first address is an address according to the E.164 addressing scheme.

18. The method according to claim 12, wherein the extracted address is an address according to the E.164 addressing scheme.

19. A network node for implementing interworking of addressing schemes in a communication network using at least two different addressing schemes, the network node comprising:

means for obtaining a first address according to a first addressing scheme;

means for providing a second address according to a second addressing scheme by including the first address into the second address such that the first address is represented in the second address, and for providing an indication that part of the second address represents the first address.

20. The network node according to claim 19, wherein said means for providing a second address comprise:

means for performing a query on the basis of the obtained first address; and

means for receiving, upon the query, a corresponding address formed according to the second addressing scheme and the indication that part of the address according to the second addressing scheme represents the corresponding address according to the first addressing scheme.

21. The network node according to claim 19, wherein said means for providing a second address comprise:
 - means for performing a query on the basis of the obtained first address; and:
 - means for receiving, upon the query, a corresponding address formed according to the second addressing scheme; and
 - means for adding to the returned address the indication that part of the address according to the second addressing scheme represents the corresponding address according to the first addressing scheme.
22. The network node according to claim 20, wherein the means for providing the second address are arranged to provide the second address by using ENUM translation.
23. The network node according to claim 19, wherein the indication is part of the second address.
24. The network node according to claim 19, wherein the indication is 'user=phone' tag.
25. The network node according to claim 19, wherein the obtaining means is arranged to obtain the first address in an ISUP message.
26. The network node according to claim 19, wherein the second address is a SIP URI.

27. The network node according to claim 19, further comprising:
means for sending the second address further in a first signaling
message.

28. The network node according to claim 27, further comprising:
means for receiving at least one responding signaling message in
response to the first signaling message; and
means for detecting in the received message an indication that the
message includes an address according to the second addressing scheme
which includes an address that can be presented according the first
addressing scheme.

29. The network node according to claim 28, further comprising:
means for extracting said address according to the first addressing
scheme out of said address according to the second addressing scheme.

30. The network node according to claim 29, further comprising:
means for sending the extracted address in a second signaling
message.

31. The network node according to claim 27, wherein the first and
responding signaling messages are SIP messages.

32. The network node according to claim 30, wherein the second signaling message is an ISUP message.

33. The network node according to claim 29, wherein the extracted address is an address of a connected user.

34. The network node according to claim 19, wherein the first address is an address according to the E.164 addressing scheme.

35. The network node according to claim 29, wherein the extracted address is an address according to the E.164 addressing scheme.

36. The network node according to claim 19, wherein the network node is a MGCF.

37. The network node according to claim 19, wherein the network node is acting as at least one of an MGCF, a BGCF, an application server, a multimedia message service center and short message service center.

38. A communication network comprising at least two subnetworks, at least one network node in each subnetwork, at least one user in each subnetwork and a gateway node interfacing the at least two subnetworks, wherein a first subnetwork uses a first addressing scheme routable in the first subnetwork;

a second subnetwork uses a second addressing scheme routable in the second subnetwork; and

the gateway node is configured to:

obtain a first address according to the first addressing scheme,

provide a second address according to the second addressing scheme

by including the first address into the second address such that the first address is represented in the second address and

provide an indication that part of the second address represents the first address.

39. A communication network according to claim 38, wherein said gateway node provides the second address using ENUM translation.

40. A communication network according to claim 38, further comprising an address translation node, wherein said gateway node is configured to use the address translation node when providing the second address.

41. A communication network according to claim 40, wherein said address translation node is configured to perform the address translation using ENUM translation.

42. A communication network according to claim 38, wherein said gateway node is further configured to receive the first address in a signaling message from the first subnetwork.

43. A communication network according to claim 38, wherein said gateway node is further configured to send the second address in a signaling message to the second subnetwork.

44. A communication network according to claim 38, wherein a user of the second subnetwork is configured to send, in response to a received initiating signaling message, the connected address in a response signaling message.

45. A communication network according to claim 38, wherein a network node of the second subnetwork is configured to control a user of the second subnetwork, and to send, in response to a received initiating signaling message to the user, the address of the user in a response signaling message.

46. A communication network according to claim 38, wherein said gateway node is further configured to receive a signaling message from the second subnetwork and to detect in said received message an indication that the message includes an address according to the second addressing scheme which includes an address that can be presented according the first addressing scheme.

47. A communication network according to claim 46, wherein said gateway node is further configured to extract said address according to the

first addressing scheme out of said address according to the second addressing scheme.

48. A communication network according to claim 46, wherein said gateway node is further configured to send the extracted address in a signaling message to the first subnetwork.

49. A communication network according to claim 38, wherein said gateway node is a network node of either subnetwork.

50. A communication network according to claim 38, wherein said gateway node is a CSCF of either subnetwork.

51. A communication network according to claim 38, wherein said gateway node is acting as at least one of an MGCF, a BGCF, an application server, a multimedia message service center and short message service center.